

ASSIGNMENT NO 08

SQL Queries

Name:

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ROLL NO:

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Submitted to:

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Subject:

**Database Management
System**

Screenshots of Queries

```
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.40 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| clothing_store_chain |
| college |
| dept |
| employee |
| home |
| information_schema |
| mysql |
| performance_schema |
| sys |
| waleed |
+-----+
10 rows in set (0.07 sec)

mysql> use dept;
Database changed
mysql> show tables;
+-----+
| Tables_in_dept |
+-----+
| dept |
| employee |
| grade |
+-----+
3 rows in set (0.01 sec)

3 rows in set (0.01 sec)

mysql> desc dept
-> desc dept;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'desc dept' at
line 2
mysql> desc dept;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| deptno | int | NO | PRI | NULL | |
| depname | varchar(100) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int | NO | PRI | NULL | |
| ename | varchar(100) | YES | | NULL | |
| hire_date | date | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| commission | decimal(10,2) | YES | | NULL | |
| deptno | int | YES | MUL | NULL | |
| gradeno | int | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> desc grade;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| gradeno | int | NO | PRI | NULL | |
| lowsalary | decimal(10,2) | YES | | NULL | |
| highsalar | decimal(10,2) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select*from dept;
+-----+
| deptno | depname |
+-----+
| 101 | marketing |
| 102 | HR |
| 103 | Finance |
| 104 | emp union |
+-----+
4 rows in set (0.34 sec)

mysql> select*from employee;
+-----+
| empno | ename | hire_date | salary | commission | deptno | gradeno |
+-----+
| 1234 | waleed | 2020-01-15 | 50000.00 | 5000.00 | 101 | 2 |
| 1244 | umer | 2023-04-25 | 11000.00 | 2000.00 | 102 | 1 |
+-----+
2 rows in set (0.08 sec)

mysql> select*from grade;
+-----+
| gradeno | lowsalary | highsalar |
+-----+
| 1 | 10000.00 | 17000.00 |
| 2 | 12000.00 | 19000.00 |
| 3 | 14000.00 | 20000.00 |
| 4 | 15000.00 | 22000.00 |
+-----+
4 rows in set (0.11 sec)

mysql> alter table employee add job varchar(10);
Query OK, 0 rows affected (0.41 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| empno | int | NO | PRI | NULL | |
| ename | varchar(100) | YES | | NULL | |
| hire_date | date | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
+-----+

mysql> desc employee;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| empno | int | NO | PRI | NULL | |
| ename | varchar(100) | YES | | NULL | |
| hire_date | date | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| commission | decimal(10,2) | YES | | NULL | |
| deptno | int | YES | MUL | NULL | |
| gradeno | int | YES | MUL | NULL | |
| job | varchar(10) | YES | | NULL | |
+-----+
8 rows in set (0.00 sec)

mysql> update employee set job = 'clerk'where empno = 1234;
Query OK, 1 row affected (0.16 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set job = 'clerk'where empno = 1244;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select*from employee;
+-----+
| empno | ename | hire_date | salary | commission | deptno | gradeno | job |
+-----+
| 1234 | waleed | 2020-01-15 | 50000.00 | 5000.00 | 101 | 2 | clerk |
| 1244 | umer | 2023-04-25 | 11000.00 | 2000.00 | 102 | 1 | clerk |
+-----+
2 rows in set (0.00 sec)

mysql> select job from employee where job='clerk' && salary>19000 && salary<=21000;
Empty set, 2 warnings (0.00 sec)

mysql> select job from employee where job='clerk' && salary>1000 && salary<=9000;
Empty set, 2 warnings (0.00 sec)

mysql> select job from employee where job='clerk' && salary>10000 && salary<=9000;
Empty set, 2 warnings (0.00 sec)
```

```

Empty set, 2 warnings (0.00 sec)

mysql> select job from employee where job='clerk' && salary>10000 && salary<=9000;
Empty set, 2 warnings (0.00 sec)

mysql> select job from employee where job='clerk' && salary>10000 && salary<=19000;
+-----+
| job   |
+-----+
| clerk |
+-----+
1 row in set, 2 warnings (0.00 sec)

mysql> select ename, job from employee where job='clerk' && salary>10000 && salary<=19000;
+-----+-----+
| ename | job   |
+-----+-----+
| umer  | clerk |
+-----+-----+
1 row in set, 2 warnings (0.00 sec)

mysql> update employee set job = 'assistant' where empno = 1244;
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+
| empno | ename | hire_date | salary | commission | deptno | gradeno | job   |
+-----+-----+-----+-----+-----+-----+-----+
| 1234  | waleed | 2020-01-15 | 50000.00 | 5000.00 | 101 | 2 | clerk |
| 1244  | umer  | 2023-04-25 | 11000.00 | 2000.00 | 102 | 1 | assistant |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select ename from employee where job = 'clerk' || salary between 40000 && 10000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '&& 10000' at line 1
mysql> select ename from employee where job = 'clerk' || salary between 40000 && 1000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '&& 1000' at line 1
mysql> select ename from employee where job = 'clerk' || salary salary 40000 && 10000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'salary 40000 && 10000' at line 1
mysql> select ename from employee where salary IN(50000,11000);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '&& 10000' at line 1
mysql> select ename from employee where job = 'clerk' || salary between 40000 && 1000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '&& 1000' at line 1
mysql> select ename from employee where job = 'clerk' || salary salary 40000 && 10000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'salary 40000 && 10000' at line 1
mysql> select ename from employee where salary IN(50000,11000);
+-----+
| ename |
+-----+
| waleed |
| umer  |
+-----+
2 rows in set (0.00 sec)

mysql> select ename, job from employee where salary IN(50000,11000);
+-----+-----+
| ename | job   |
+-----+-----+
| waleed | clerk |
| umer  | assistant |
+-----+-----+
2 rows in set (0.00 sec)

mysql>

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| waleed | Clerk |
| umer   | assistant |
+-----+
2 rows in set (0.00 sec)

mysql> like %a;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'like %a' at line 1
mysql> like _%a;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'like _%a' at line 1
mysql> like _a%;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'like _a%' at line 1
mysql> select ename from employee where like _a%;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'like _a%' at line 1
mysql> select ename from employee where ename like _a%;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '%' at line 1
mysql> select ename from employee where ename like '_a%';
+-----+
| ename |
+-----+
| waleed |
+-----+
1 row in set (0.00 sec)

mysql> select ename from employee where ename like 'w%';
+-----+
| ename |
+-----+
| waleed |
+-----+
1 row in set (0.00 sec)

mysql> select ename from employee where ename like 'u%';
+-----+
| ename |
+-----+
| umer   |
+-----+
1 row in set (0.00 sec)

mysql>

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```

mysql> select ename from employee where ename like '__e%';
+-----+
| ename |
+-----+
| umer   |
+-----+
1 row in set (0.00 sec)

mysql> select ename from employee where commission is null;
ERROR 1054 (42S22): Unknown column 'commission' in 'where clause'
mysql> select ename from employee where commission !=;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> select ename from employee where commission !=NULL;
ERROR 1054 (42S22): Unknown column 'commission' in 'where clause'
mysql> select ename from employee where commission !=NULL;
Empty set (0.00 sec)

mysql> select ename from employee where commission !=NOT NULL;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'NOT NULL' at line 1
mysql> select ename from employee where commission =NULL;
Empty set (0.00 sec)

mysql> select ename from employee where commission =NOT NULL;
ERROR 1054 (42S22): Unknown column 'NOT_NULL' in 'where clause'
mysql> select ename from employee where commission !=NULL;
Empty set (0.00 sec)

mysql>

```

1234	waleed	2020-01-15	50000.00	5000.00	101	2	clerk
1244	umer	2023-04-25	11000.00	2000.00	102	1	assistant

2 rows in set (0.00 sec)

```
mysql> update employee set column commission = 'NULL' where empno= 1234;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'column commis
sion = 'NULL' where empno= 1234' at line 1
mysql> update employee set commision='null' where empno='1234';
ERROR 1054 (42S22): Unknown column 'commision' in 'field list'
mysql> update employee set commission='null' where empno='1234';
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select count(*) from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select count
(*) from employee' at line 1
mysql> select count(commission) from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select count
(commission) from employee' at line 1
mysql> select count* from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select count
*' at line 1
mysql> select count(*) from employee;
+-----+
| count(*) |
+-----+
|          2 |
+-----+
1 row in set (0.06 sec)

mysql> select count(commission) from employee;
+-----+
| count(commission) |
+-----+
|          2 |
+-----+
1 row in set (0.01 sec)

mysql>

mysql> select count(*) from employee;
+-----+
| count(*) |
+-----+
|          2 |
+-----+
1 row in set (0.06 sec)

mysql> select count(commission) from employee;
+-----+
| count(commission) |
+-----+
|          2 |
+-----+
1 row in set (0.01 sec)

mysql> select avg(salary) from employee group by job;
+-----+
| avg(salary) |
+-----+
| 50000.000000 |
| 11000.000000 |
+-----+
2 rows in set (0.06 sec)

mysql>
```